



NEW



Optical Dissolved Oxygen Sensor

YSI's most **Reliable Oxygen Sensor to date: ROX**

The next-generation YSI ROX® is a luminescent-based dissolved oxygen sensor that offers YSI customers the most powerful tool for making long-term oxygen measurements in severe fouling and low oxygen environments. Its rugged design and large measurement range also make it ideal for sampling, flow cell, and ground water measurements.



The ROX Reliable Oxygen Sensor

Pure
Data for a
Healthy
Planet.®

- Utilizes luminescence lifetime detection of oxygen to provide the most stable measurements possible
- Microprocessor-controlled measurement system reduces drift and improves accuracy
- Easy-to-replace, durable membrane with a usable life of one year
- Fully compatible with all YSI 6-Series sondes equipped with optical ports—with a free and easy firmware upgrade from ysi.com
- Easy one- or two-point calibration:
 - One-point saturation
 - Two-point for a zero calibration point and saturation
- Integrated wiping system providing anti-fouling in the most hostile environments and featuring:
 - New switch-controlled wiper parking system
 - Non-corroding titanium wiper shaft for long-life in hydrogen sulfide (H₂S) and low oxygen environments
 - Service-center-replaceable wiper shaft seal for longer sensor life
- Widest detection range of any optical dissolved oxygen sensor for easy correlation with YSI Rapid Pulse™ legacy data

YSI understands the challenges facing scientists and technicians in the field today. Many of our employee-owners spend time working along side our customers in the field and have experienced first-hand what works well and what does not. The lessons we have learned have been applied to the design of the new ROX sensor.

ROX Quality Control and Quality Assurance

Improving on YSI's commitment to supplying our customers with relevant calibration and QA/QC data, each ROX sensor is shipped with full-range factory calibration coefficients to ensure excellent sensor accuracy.



Methodology

The ROX[®] sensing system is based on the luminescence lifetime method. This method was chosen because it offers the most stable, repeatable and sensitive method for oxygen detection, thus reducing sensor drift and prolonging deployment times.

To order, or for more information, contact YSI

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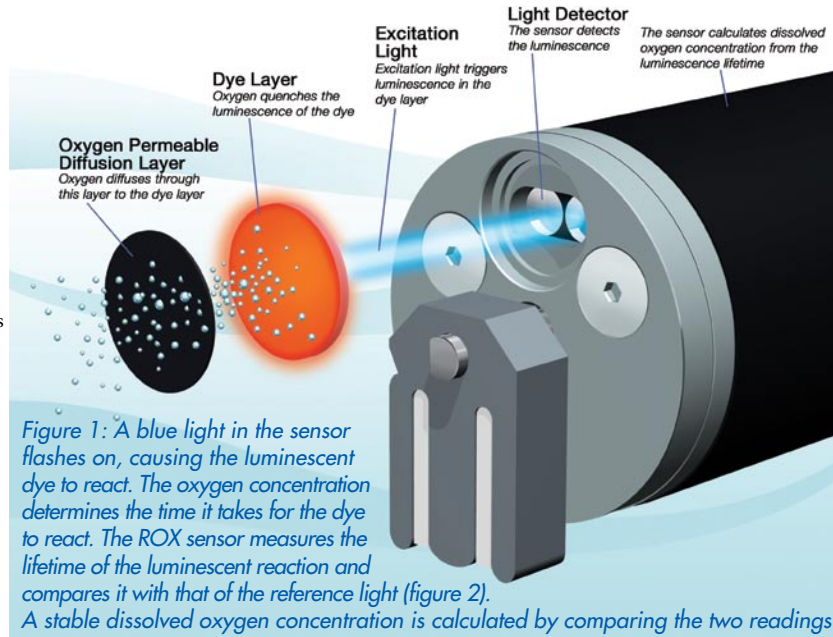
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Yellow Springs, Ohio Facility

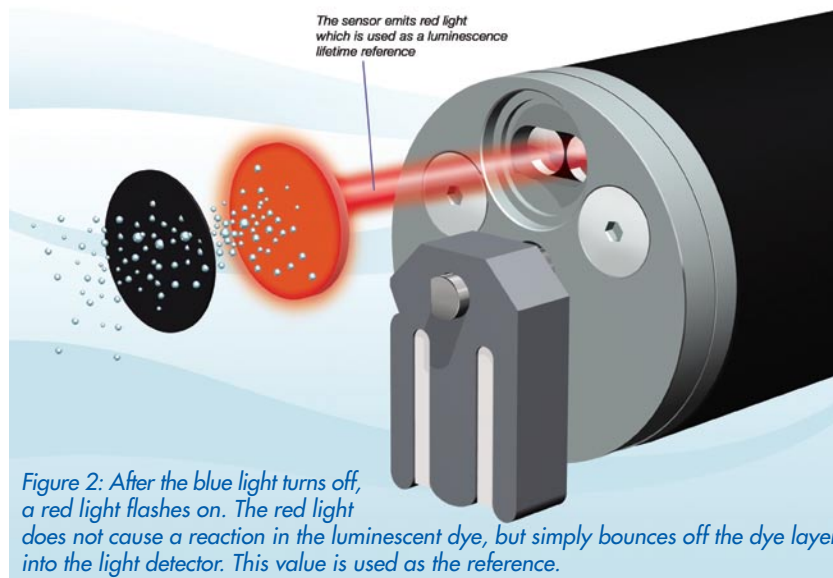
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the Planet?[®]



The ROX membrane differs from the traditional electrochemical sensor membrane, requiring fewer steps for installation and less maintenance. ROX membranes will last for one year and are made of a durable material that is unlikely to be damaged in the field. The ROX sensor eliminates stirring dependency that was required of most traditional polarographic sensors.



Rapid Pulse vs. ROX
YSI's ROX sensor has several advantages over the Rapid Pulse[™] DO sensor including:

- Zero flow dependence
- Maintenance-free and puncture-proof membrane
- No electrolyte
- Self-cleaning wipers for longer deployments
- Insensitive to H₂S
- Zero-cal option

YSI 6150 ROX Optical Dissolved Oxygen Sensor Specifications

	Range	Resolution	Accuracy
ROX Optical Dissolved Oxygen* % Saturation	0 to 500%	0.1%	0 to 200%: ±1% of reading or 1% air saturation, whichever is greater; 200 to 500%: ±15% of reading, relative to calibration gases
ROX Optical Dissolved Oxygen* mg/L	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ±0.1 mg/L or 1% of reading, whichever is greater; 20 to 50 mg/L: ±15% of reading, relative to calibration gases

* Maximum depth rating is 200 feet, 61 m